

## **Appendix D**

### **Illicit Discharge Elimination Program**

1. Dry Weather Screening Investigation Maps (Saved on CD-ROM)
2. Reported Illicit Discharges (Page D.2-1)
3. Construction Advisory (CA) 2006-12, Reporting Illicit Discharges and Illicit Connections (Pages D.3-1 to D.3-2)
4. Statewide Outfall Maps (Saved on CD-ROM)
5. 2006 Labeled Outfalls (Pages D.5-1 to D.5-3)
6. Potential Illicit Discharge Notification Letters (Pages D.6-1 to D.6-33)



See Appendix D.1 Dry Weather Screening Investigation Maps  
Saved on CD-ROM



***Complaint Summary****Monday, December 04, 2006*

<i>Complaint #</i>	<i>Region</i>	<i>Date of Observaion</i>	<i>Route</i>	<i>PSD #</i>	<i>PR #</i>	<i>Control Section</i>	<i>Source Name</i>	<i>Source Address</i>	<i>Nature of Problem</i>	<i>Status</i>
1	Southwest	8/21/2006					Hummel	8304 Maple Grove Rd	Two corrugated plastic pipes entering ROW adjacent to headwall. Dark water exiting one of the pipes. Pipe clogged. Once unplugged, water clear.	Resolved
2	Southwest	9/5/2006	M-140		577905	80031	unknown	39571 M-140	pipe entering ditchline opposite headwall. Slight odor. Black color.	
3	Southwest	11/2/2006	M-140			80031	Consumers Concrete	13271 M-140	concrete slurry/dust entering drainage ditch	
4	Southwest	2/3/2006	US-131				Schoolcraft	16721 S. US-131	Secondary containment	Resolved
							Farm Services	PO Box 326	lagoon discharge	



# Construction Advisory

CA 2006-12  
September 20, 2006

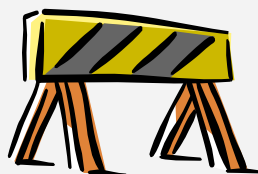
From Brenda O'Brien, Engineer of Construction and Technology

MDOT-Construction and  
Technology Support Area  
P.O. Box 30049  
Lansing, Michigan 48909  
Phone/517-322-1087  
Fax/517-322-5664  
www.michigan.gov/mdot/

Index: Environment

Questions regarding this  
Construction Advisory  
should be directed to:

Judy Ruszkowski,  
Operations Environmental  
Stewardship Engineer,  
517-322-5698 or  
ruszkowskij@michigan.gov



BJO:JAR

## Reporting Illicit Discharges and Illicit Connections

MDOT's Statewide Storm Water Discharge Permit requires the department to have a process in place to receive and respond to reports of illicit discharges/connections (ID/C) to our storm water drainage system.

Illicit Connections are any physical connection to MDOT's drainage system that 1.) conveys an illicit discharge or 2.) is not authorized or permitted by MDOT where such authorization or permit is required.

Illicit Discharges are any discharge or seepage into MDOT's drainage system that is not composed entirely of storm water, and which is not specifically exempt under MDOT's statewide permit.

MDOT's Illicit Discharge Elimination Program (IDEP) implementation team worked with our storm water consultant, Tetra Tech, to develop a database to record and track the status of all reported ID/Cs. Each region has designated one individual to serve as the IDEP Coordinator to ensure all reported ID/Cs are entered into the database for follow-up. In most regions, this person is also the Storm Water Coordinator.

Construction staff is

reminded to follow BOH-IM 2004-10, *Illicit Discharge Elimination Program Procedure*, whenever a possible ID/C is encountered during the construction phase of a project. The procedure is summarized here.

1. The contractor notifies the MDOT staff when they encounter a suspected ID/C during construction. Examples are an unidentified pipe within a drainage structure or entering a ditch.
2. Contact the resource specialist, Storm Water Coordinator or the IDEP Coordinator for the region, if necessary, to assist in determining if an emergency situation exists. Examples of an emergency situation include untreated sewage, or strong chemical or fuel smell from the discharge flowing to our drainage system.
3. If an emergency situation does exist, MDOT staff must contact the Pollution Emergency Alert System (PEAS) at 1-800-292-4706 to notify MDEQ of the emergency.
4. If no emergency exists, attempt to determine the source of the discharge based on the surrounding land use and observable characteristics of the discharge, or direction of the pipe or other conveyance. Examples of non-emergency ID/Cs may include roof drains or sump pump discharges entering our storm water drainage system.
5. If you are unable to identify the source in a reasonable amount of time, record all observations about the discharge before continuing with construction in that area. Report this information to your region IDEP Coordinator so it can be entered into the IDEP database for tracking and, if necessary, follow up.
6. The IDEP Coordinator will then work with the TSC to identify the source and notify all appropriate agencies, following established procedures.

Remember, MDOT is required, as a condition of our storm water discharge permit, to document and follow

up on all ID/Cs that we are made aware of on our right-of-way. Most ID/Cs to our storm water drainage system discovered during construction originates from off our right-of-way. In this case, MDOT will refer the situation to the local health department, MDEQ or other regulatory agency. MDOT will then cooperate in any further investigation by these

agencies where access to our right-of-way may be needed.

If you have any questions on how to report an illicit discharge or illicit connection, or if you would like to receive additional information on our permit requirements contact your region IDEP Coordinator listed here:

Superior Region – Dan Hamlin  
 North Region – Mike Rogers or Gary Niemi  
 Grand Region – Steve Houtteman  
 Bay Region – Cary Rouse  
 Southwest Region – Nick VanWoert  
 University Region – Bob Batt  
 Metro Region – Randy McKinney



See Appendix D.4 Statewide Outfall Maps  
Saved on CD-ROM



## Appendix D.5 2006 Labeled Outfalls

Project	Outfall Location
1. M-10 Reconstruction near I-696 63081-45715A	Southbound M-10, Ramp S. Station 2541+00, 40 feet left of centerline, 15 inch RCP.
	Southbound M-10. Station 2518+35, 40 feet right of centerline, 18 inch CMP.
	Southbound M-10. Station 2520+72, 85 feet left of centerline, 12 inch CMP.
	Southbound M-10. Station 2520+93, 85 feet left of centerline, 12 inch CMP.
	Southbound M-10. Station 2520+20, 90 feet right of centerline, 12 inch CMP.
	Southbound M-10. Station 2523+00, 90 feet right of centerline, 24 inch CMP.
	Northbound M-10, Ramp Q/WB I-696. Station 1375+50. 60 feet left of off ramp centerline, 12 inch CMP.
	Northbound M-10, Ramp D. Station 311+00, 53 feet right of centerline, 18 inch RCP.
	Northbound M-10, Ramp J. Station 1008+75, 95 feet right of centerline, 12 inch RCP.
	Northbound M-10, Ramp J. Station 1008+77, 120 feet right of centerline, 12 inch RCP.
	Northbound M-10, Ramp J. Station 1008+76, 75 feet left of centerline, 18 inch RCP.
	Northbound M-10. Station 1367+25, 80 feet right of centerline, 12 inch CMP.
	Northbound M-10. Station 1370+25, 80 feet right of centerline, 12 inch CMP.
	Northbound M-10. Station 1370+25, 80 feet left of centerline, 12 inch CMP.
	Northbound M-10. Station 1372+51, 80 feet left of centerline, 12 inch CMP.
	Northbound M-10. Station 1373+05, 75 feet right of centerline, 12 inch CMP.
	Northbound M-10, Ramp E. Station 509+45, 55 feet left of centerline, 12 inch CMP.
	Northbound M-10, Ramp E. Station 502+30, 23 feet left of centerline, 18 inch RCP.
2. I-696 near M-10 63101-54301A	Eastbound I-696. Station 1+819, 35 meters right of centerline, 300 mm RCP.
	I-696, exit ramp to southbound M-10. Station 7+373, 15 meters right of centerline, 3000 mm by 1500 mm tee, box.
	I-696, exit ramp to southbound M-10. Station 7+380, 10 meters right of centerline, 1676 mm RCP.
	I-696, exit ramp to southbound M-10. Station 1+535, 45 meters right of centerline, 450 mm RCP.
3. I-96 BL at Rouge River, Farmington Hills 63821-72614A	Station 13+72, 30.5 feet right of centerline, 15 inch RCP.
	Station 14+80, 31 feet right of centerline, 48 inch RCP.
	Station 15+75, 36.5 feet right of centerline, 12 inch RCP.

## Appendix D.5 2006 Labeled Outfalls

Project	Outfall Location
4. US-24 at Silver Creek, Flat Rock 82051-48539A	Station 55+90, 70 feet right of construction centerline, 12 inch RCP.
	Station 56+10, 68 feet right of construction centerline, 48 inch RCP.
5. M-82 in Fremont 62011-79505A	Station 1143+88, 74 feet right of centerline, 18 inch RCP.
	Station 1144+29, 78 feet right of centerline, 24 inch RCP.
	Station 1144+26, 73 feet left of centerline, 24 inch RCP
6. M-20 at White River, White Cloud 62015-60572A	Station 568+00, 30 feet right of centerline, 24 inch RCP.
7. M-37 at M-82, Newaygo 62031-79781A	Station 273+35, 32.4 feet left of centerline, 36 inch RCP with galvanized end section.
8. M-78 at the Battle Creek River, Bellevue 23011-78400A	Station 588+45, 35 feet north of centerline, 15 inch RCP.
9. I-94 at Lovers Lane Bridge, Portage 39022-76448A	EB I-94 at Portage Creek, Station 1532+04, 105 feet right of construction centerline, 30 inch RCP.
	WB I-94 at Portage Creek, Station 1528+09, 100 feet left of construction centerline, 36 inch RCP.
10. M-99 in Springport 38011-75184A	Located behind the Springport Telephone Company. Station 16+85 (storm sewer stationing), 42 inch RCP.
11. M-51 over Brandywine Creek, Niles 11051-79453A	Station 259+50, 50 feet left of centerline, 36 inch RCP.
	Station 259+50, 55 feet right of centerline, 15 inch RCP.
	Station 260+00, 50 feet left of centerline, 30 inch RCP.
	Station 260+00, 55 feet right of centerline, 15 inch RCP.
12. M-53 over White Creek, Sanilac County 74012-79592A	Station 2167+15, 45 feet right of centerline, 24 inch CMP.
13. M-26 in South Range 31012-53244A	Station 1309+74, 225 feet left of centerline, 30 inch RCP.
14. M-107 West of Silver City 66061-80207A	Station 83+50, 32 feet right of centerline, 36 inch RCP, sloped metal end section.
	Station 89+50, 32 feet right of centerline, 24 inch RCP, sloped metal end section.
	Station 94+00, 36 feet right of centerline, 24 inch RCP, sloped metal end section.
	Station 97+00, 32 feet right of centerline, 24 inch RCP, sloped metal end section.
	Station 101+00, 32 feet right of centerline, 24 inch RCP, sloped metal end section.
	Station 105+50, 24 feet right of centerline, 18 inch RCP, sloped metal end section.
	Station 116+25, 28 feet right of centerline, 24 inch RCP, sloped metal end section.
	Station 130+00, 32 feet right of centerline, 24 inch RCP, sloped metal end section.
15. M-61, Airport Road to US-23, Standish 06021-56940A	Station 239+85, 22.5 feet left of centerline, 24 inch RCP.
	Station 240+00, 22.5 feet left of centerline, 12 inch RCP.
16. M-57 at the Shiawassee River, Chesaning 73021-79615A	25 feet north of centerline on west riverbank.

## Appendix D.5 2006 Labeled Outfalls

Project	Outfall Location
17. I-94 at I-94BL, Port Huron 77111-45758A, 72406A	I-94 Eastbound, Station 1878+25, 37 feet right of edge of concrete shoulder, 14 foot by 6 foot box culvert
	I-94 Westbound, Station 2199+10, 10 feet left of edge of concrete shoulder, 14 foot by 6 foot box culvert
	I-94 Eastbound, Station 1842+00, 25.5 feet right of edge of concrete shoulder, 66 inch RCP.
	I-94 Westbound, Station 2162+85, 35 feet left of edge of concrete shoulder, 66 inch RCP.
	I-94 Eastbound, Station 1816+40, 33.5 feet right of edge of concrete shoulder, 42 inch RCP.
	I-94 Westbound, Station 2136+45, 34 feet left of edge of concrete shoulder, 42 inch RCP.
	I-94 Eastbound, Station 1806+15, 36 feet right of edge of concrete shoulder, 66 inch RCP.
	I-94 Westbound, Station 2125+41, 25 feet left of edge of concrete shoulder, 66 inch RCP.
	I-94 Eastbound, Station 1786+40, 40 feet right of edge of concrete shoulder, 58 inch by 91 inch RCP.
	I-94 Westbound, Station 2106+40, 28 feet left of edge of concrete shoulder, 58 inch by 91 inch RCP.
	I-94 Eastbound, Station 1764+00, 40 feet right of edge of concrete shoulder, 48 inch RCP.
	I-94 Westbound, Station 2084+00, 23 feet left of edge of concrete shoulder, 48 inch RCP.
	I-94 Eastbound, Station 1738+00, 44 feet right of edge of concrete shoulder, 60 inch RCP.
	I-94 Westbound, Station 2058+00, 40 feet left of edge of concrete shoulder, 60 inch RCP.
	I-94 Eastbound, Station 1653+00, 44 feet right of edge of concrete shoulder, 48 inch RCP.
	Range Road, Station 1+00, 14 feet left of edge of HMA shoulder, 48 inch RCP.
	Range Road Ramp A, Station 26+00, 40 feet left of edge of HMA shoulder, 66 inch RCP.
	Range Road Ramp A, Station 26+00, 43 feet right of edge of HMA shoulder, 66 inch RCP.
	Range Road Ramp E, Station 14+00, 33.5 feet left of edge of HMA shoulder, 66 inch RCP.
	Range Road Ramp E, Station 14+00, 46 feet right of edge of HMA shoulder, 66 inch RCP.
18. M-32 in East Jordan 15051-56932A	Station 7+64, 60 feet right of centerline, concrete headwall, 36 inch CPE.
	Station 7+64, 34 feet right of centerline, concrete headwall, 12 inch RCP.
19. M-125 over Little Sandy Creek Drain 58071-53258A	Station 8+97, 65 feet left, 15 inch RCP.
	Station 9+16, 63 feet left, 12 inch RCP.
	Station 8+80, 55 feet right, 12 inch RCP.
20. M-125 over Sandy Creek 58071-53258A	Station 110+04.5, 60 feet right, 12 inch RCP.





STATE OF MICHIGAN

JENNIFER M. GRANHOLM  
GOVERNOR

DEPARTMENT OF TRANSPORTATION  
KALAMAZOO TRANSPORTATION SERVICE CENTER

GLORIA J. JEFF  
DIRECTOR

February 7, 2006

Schoolcraft Farm Services Inc.  
Wilbur-Ellis Company  
16721 South US-131  
P.O. Box 326  
Schoolcraft, Michigan 49087

Dear Property Owner:

The Michigan Department of Transportation (MDOT) is currently investigating its drainage system within Schoolcraft Township. During a field investigation on February 3, 2006, MDOT staff identified a pump emptying water from the secondary containment lagoons surrounding your storage tanks into MDOT's drainage system along US-131. This discharge constitutes an illicit discharge and connection.

The Federal Clean Water Act and Part 31, Water Resources Protection of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended and regulations promulgated pursuant to these statutes mandate that only clean storm water or potable water can be discharged to a system that discharges to the waters of the State. Your property could be discharging pollutants to MDOT's drainage system in violation of these laws and in violation of the Highways Obstructions and Encroachments Act, 1925 PA 368.

Please remove this illicit discharge and connection immediately. By March 31, 2006 you must provide documentation to this office describing what actions you have taken to resolve this matter. By copy of this letter we are notifying the Michigan Department of Environmental Quality, Schoolcraft Township, and Kalamazoo County Health and Human Services of this information.

Please contact Nicholaus VanWoert at 269-337-3936 if you have any questions.

Sincerely,

Mark S. Geib  
Manager  
Kalamazoo Transportation Service Center

MSG:NV:dae

**COPY**

5372 SOUTH 9TH STREET • KALAMAZOO, MICHIGAN 49009  
www.michigan.gov • (269) 375-8900 Toll Free: (877) 320-6368

Printed by members of:



Schoolcraft Farm Services Inc.

Page 2

February 7, 2006

cc: Kalamazoo County Health and Human Services  
Schoolcraft Township  
Kalamazoo District Supervisor, MDEQ Water Division  
Tetra Tech MPS, MDOT MS4 Consultant  
Judy Ruszkowski, MDOT Storm Water Program Manager  
Bobbi Welke, MDOT Southwest Region Engineer  
Nicholaus VanWoert, MDOT Southwest Region Storm Water Representative





STATE OF MICHIGAN

JENNIFER M. GRANHOLM  
GOVERNOR

DEPARTMENT OF TRANSPORTATION  
BAY CITY TRANSPORTATION SERVICE CENTER

Kirk T. Steudle  
~~XXXXXXXXXXXX~~  
XXXXXXXXXXXX  
DIRECTOR

June 27, 2006

Plaza Hotel  
501 Saginaw Street  
Bay City, Michigan 48708

Dear Property Owner:

The Michigan Department of Transportation (MDOT) is currently investigating its storm sewer system within the Bay City urbanized area. Information gathered during the course of this investigation indicates that a potential illicit discharge/connection is originating from your property and entering into MDOT's storm sewer system as evidenced by presence of chlorine.

The Federal Clean Water Act and Part 31, Water Resources Protection of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended and regulations promulgated pursuant to these statutes mandate that only clean storm water or potable water can be discharged to a system that discharges to the waters of the State. Your property could be discharging pollutants to MDOT's storm sewer system in violation of these laws and in violation of the Highways Obstructions and Encroachments Act, 1925 PA 368. Non-residential swimming pool water, if in fact that is the source of the discharge, must be dechlorinated and any filter backwash water must be treated before MDOT can issue a permit to allow this discharge. Please let me know what steps you plan to take to ensure that your system does not discharge to our storm sewer in violation of the public acts cited.

If you have any questions, please contact me at 989-671-1535 extension 305 or Cary Rouse, MDOT Bay Region Resource Specialist, at 989-754-0878 extension 244.

Sincerely,

Robert A. Ranck, Jr., P.E.  
Manager  
Bay City Transportation Service Center

RAR:CR:md

Cc: Valerie Sanglier, Tetra Tech (MDOT MS4 Consultant)  
Judy Ruszkowski, MDOT Storm Water Program Manager  
Cary Rouse, MDOT Bay Region Storm Water Coordinator

2590 EAST WILDER ROAD • BAY CITY, MICHIGAN 48706

www.michigan.gov • (989) 671-1555

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STATE OF MICHIGAN

**DEPARTMENT OF TRANSPORTATION**  
MARSHALL TRANSPORTATION SERVICE CENTER

JENNIFER M. GRANHOLM  
GOVERNOR

KIRK T. STEUDLE  
DIRECTOR

September 6, 2006

Mr. Brett Hummel  
8304 Maple Grove Road  
Nashville, Michigan 49073

Dear Mr. Hummel:

The Michigan Department of Transportation (MDOT) is currently performing construction activities adjacent to your property at 8304 Maple Grove Road in Maple Grove Township, Barry County. During these activities, construction staff noticed two corrugated plastic pipes entering into MDOT's drainage system. Additional information was gathered indicating that a wash machine drain is connected to these pipes. This constitutes an illicit discharge and connection.

The Federal Clean Water Act and the Water Resources Protection of the Natural Resources and Environmental Protection Act, Part 31, 1994 PA 451, as amended, and regulations promulgated pursuant to these statutes mandate that only clean storm water or potable water can be discharged to a system that discharges to the waters of the State. Your property could be discharging pollutants to MDOT's drainage system in violation of these laws and in violation of the Highways Obstructions and Encroachments Act, 1925 PA 368.

Please take steps to have the wash machine drain and any other illicit discharges rerouted out of MDOT's drainage system within 30 days of receipt of this letter. You must provide documentation to the Marshall Transportation Service Center (TSC) by **October 11, 2006**, describing what actions you have taken to resolve this matter. If you are unable to remove the encroachment by this date, you must provide information to the TSC by **October 4, 2006**, describing the specific steps and schedule by which you will remove the encroachment.

The Marshall TSC address is: MDOT – Marshall TSC  
15300 West Michigan Avenue  
Marshall, Michigan 49068

In addition, improvements to the intersection of M-66 and Maple Grove Road may have affected the drainage of the pipes in question. It shall be your responsibility to make the necessary adjustments to allow for the proper drainage of any legal discharges.

By copy of this letter we are notifying the Michigan Department of Environmental Quality, Maple Grove Township, and the Barry-Eaton District Health Department of this information.

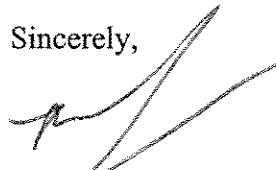
Mr. Brett Hummel

Page 2

September 6, 2006

Please contact Nicholaus VanWoert, MDOT Southwest Region Resource Specialist, at (269) 337-3936 if you have questions on the illicit discharge. Please contact Jon Kolbasa, MDOT Marshall Transportation Service Center Utility/Permit Engineer at (269) 789-0592 if you have questions on performing any construction activities within MDOT right of way.

Sincerely,

A handwritten signature in black ink, appearing to read 'Brad Wiefelrich', with a long, sweeping horizontal stroke extending to the right.

Brad Wiefelrich  
Marshall TSC Manager

By Certified Mail

cc: Barry-Eaton District Health Department  
Maple Grove Township  
Grand Rapids District Supervisor, MDEQ Water Bureau

cc: Barry-Eaton District Health Department  
Maple Grove Township  
Grand Rapids District Supervisor, MDEQ Water Bureau

bc: Tetra Tech MPS, MDOT MS4 Consultant  
Judy Ruszkowski, MDOT Storm Water Program Manager  
Bobbi Welke, MDOT Southwest Region Engineer  
Nicholaus VanWoert, MDOT Southwest Region Storm Water Representative  
Jon Kolbasa, Marshall TSC Utilities and Permits Engineer



JENNIFER M. GRANHOLM  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF TRANSPORTATION  
LANSING

KIRK T. STEUDLE  
DIRECTOR

METRO REGION OFFICE

October 10, 2006

Thomas Biasell,  
Public Services Director  
City of Farmington Hills  
31555 W. Eleven Mile Road  
Farmington Hills, MI 48336-1165

Dear Mr. Biasell:

RE: MDOT's IDEP Crossing 'e'; Outfall No. 63022-001-A000N  
Illicit Discharge Farmington Auto Wash; MH 63022-001-C015N  
HRC Job No. 20030263.20

Hubbell, Roth & Clark, Inc. is working on behalf of the Michigan Department of Transportation (MDOT), implementing their Illicit Discharge Elimination Plan (IDEP) required under their NPDES Storm Water Discharge Permit. We are currently investigating a MDOT storm sewer system within the City of Farmington Hills. Information gathered during the course of this investigation indicates an illicit discharge is originating from property adjacent to MDOT's right-of-way and entering into MDOT's storm sewer system.

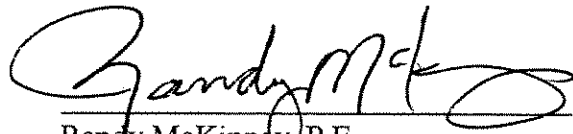
On September 8, 2006, a soapy surface discharge was observed entering the MDOT right-of-way from the Farmington Auto Wash located on Grand River Avenue between Springbrook and Haynes. We have attached a sample location map along with several photos showing the discharge. MDOT is requesting that the City of Farmington Hills work with the property owner of the above mentioned business to eliminate this illicit discharge. Please provide documentation to this office, within the next 30-days, describing what actions you have taken to resolve this matter.

We are willing to meet with you and your staff to discuss this matter should you feel it is necessary.

Mr. Thomas Biasell  
HRC Job Number 20030263.20  
October 10, 2006  
Page 2

Please contact the undersigned should you have any questions or require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "Randy McKinney", with a stylized flourish at the end.

Randy McKinney, P.E.,  
Metro Region Maintenance Engineer  
248-483-5144

RM:dvd

Enclosures:

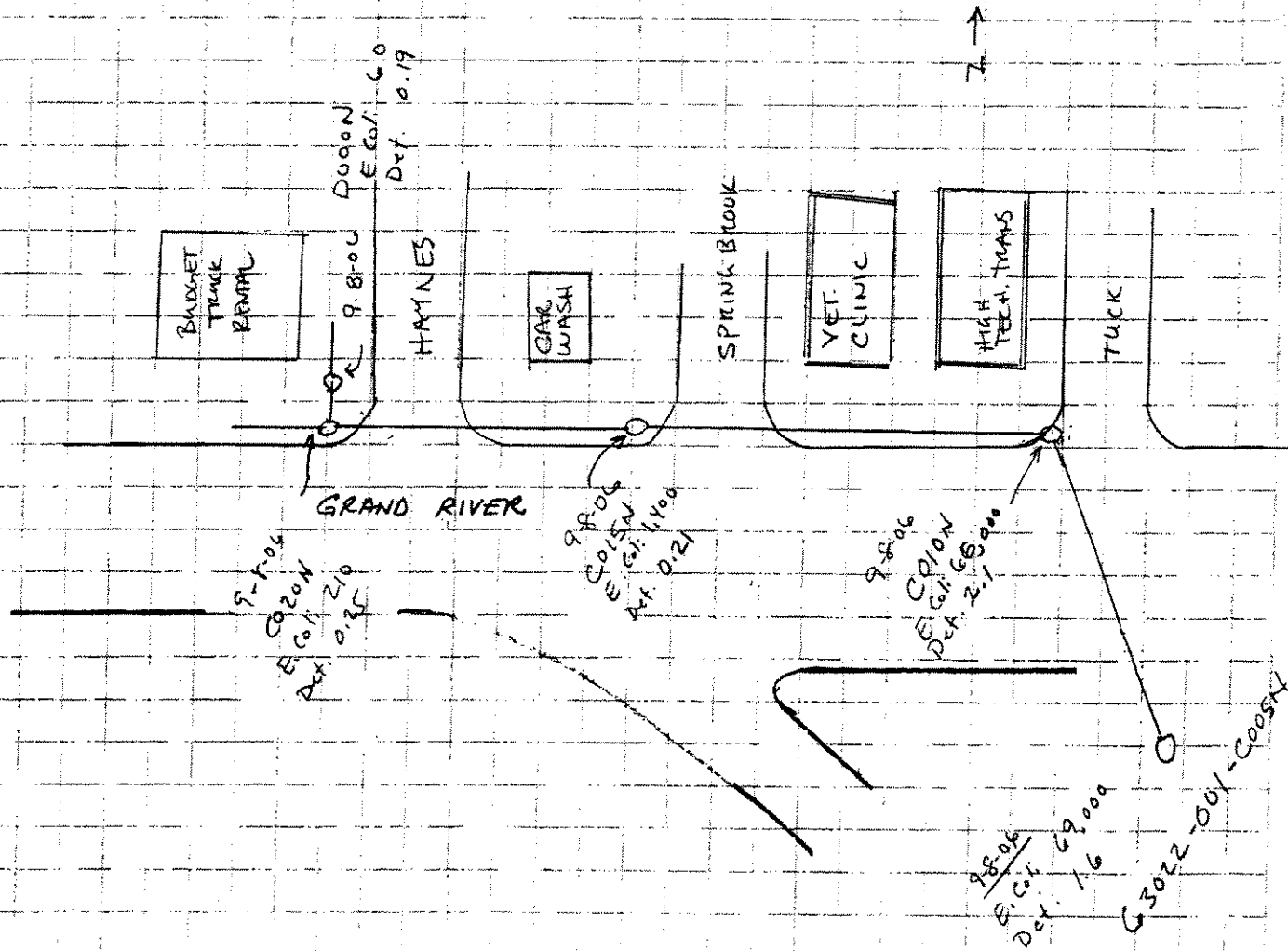
Sample Location Map  
Laboratory Test Results

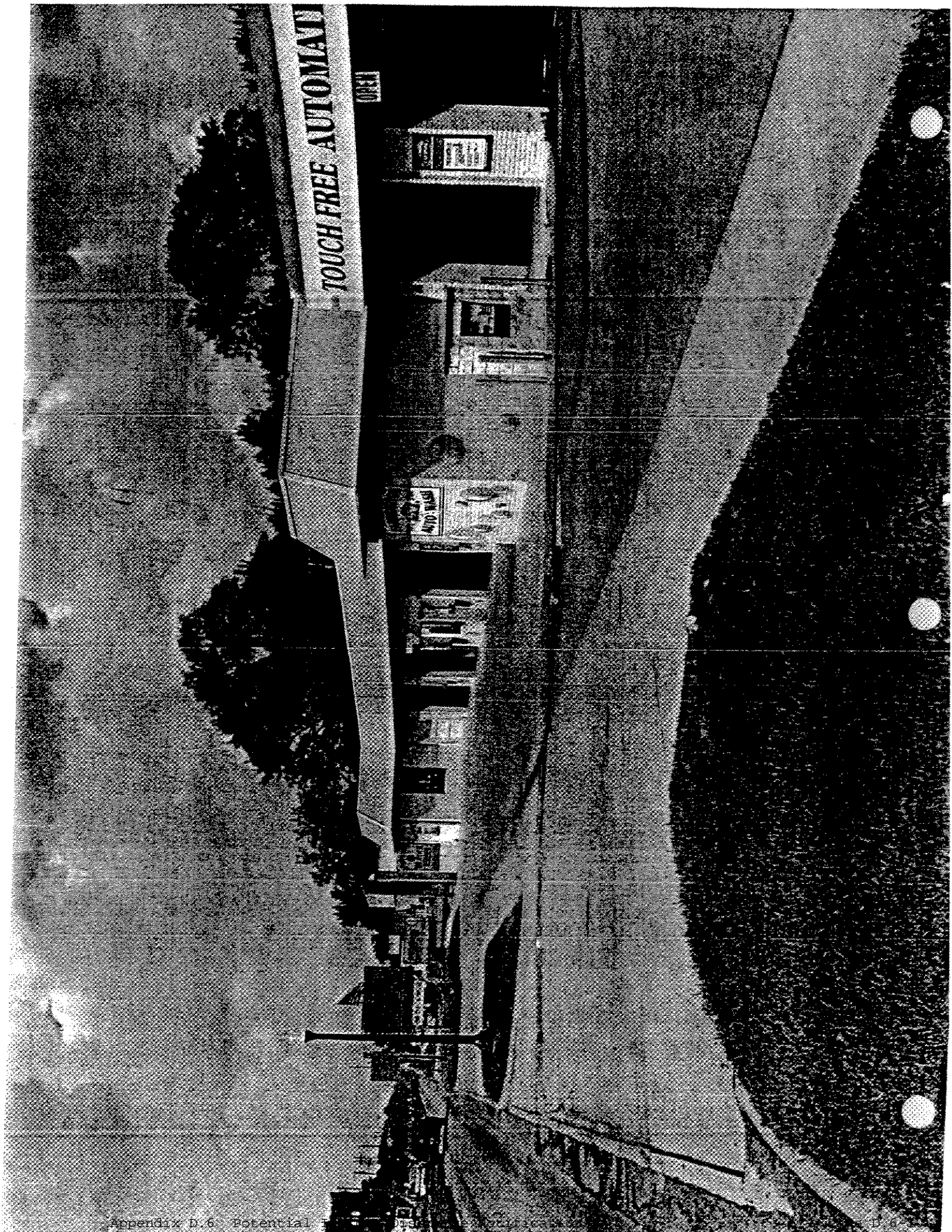
cc: MDEQ Water Bureau District Supervisor; Hae-Jin Yoon  
MDOT Storm Water Program Manager; Judy Ruszkowski  
Tetra Tech; Dan Christian  
HRC; William Davis  
File

MDOT Phase 2 Storm Water IDEP  
 Crossing "C" Grand River at Tuck  
 City of Farmington Hills

9-11 04  
 WRD

2-0030263  
 20







# TOUCH FREE AUTOMATIC

OPEN

CAR WASH  
INSTRUCTIONS

CAR WASH  
INSTRUCTIONS  
TOUCH FREE  
AUTOMATIC



JENNIFER M. GRANHOLM  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF TRANSPORTATION  
LANSING

KIRK T. STEUDLE  
DIRECTOR

METRO REGION OFFICE

October 10, 2006

Thomas Biasell,  
Public Services Director  
City of Farmington Hills  
31555 W. Eleven Mile Road  
Farmington Hills, MI 48336-1165

Dear Mr. Biasell:

RE: MDOT's IDEP Crossing 'e'; Outfall No. 63022-001-A000N  
Potential Illicit Connection 30400 Block Grand River MH 63022-001-C010N  
HRC Job No. 20030263.20

Hubbell, Roth & Clark, Inc. is working on behalf of the Michigan Department of Transportation (MDOT), implementing their Illicit Discharge Elimination Plan (IDEP) required under their NPDES Storm Water Discharge Permit. We are currently investigating a MDOT storm sewer system within the City of Farmington Hills. Information gathered during the course of this investigation indicates a possible illicit connection is originating from property adjacent to MDOT's right-of-way and entering into MDOT's storm sewer system.

On September 8, 2006, dry weather samples were collected and found to have high levels of bacteria and detergents. This appears isolated to the 30400 block of Grand River Avenue between Tuck and Springbrook. There are two businesses located on this block:

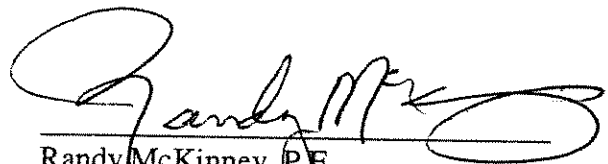
1. HI-Tech Transmission  
30400 Grand River  
(248)473-5800
2. AG Black Veterinary Hospital  
30470 Grand River  
(248) 478-5400

Mr. Thomas Biasell  
HRC Job No. 20030263.20  
October 10, 2006  
Page 2

We have attached a sample location map and test results. MDOT is requesting that the City of Farmington Hills work with the property owner's of the above mentioned businesses to verify the existence of an illicit connection(s) via dye testing and eliminate all confirmed illicit connections. Please provide documentation to this office, within the next 30-days, describing what actions you have taken to resolve this matter.

We are willing to meet with you and your staff to discuss this matter should you feel it is necessary. Please contact the undersigned should you have any questions or require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "Randy McKinney", is written over a horizontal line.

Randy McKinney, P.E.,  
Metro Region Maintenance Engineer  
248-483-5144

RM:dvd

Enclosures:

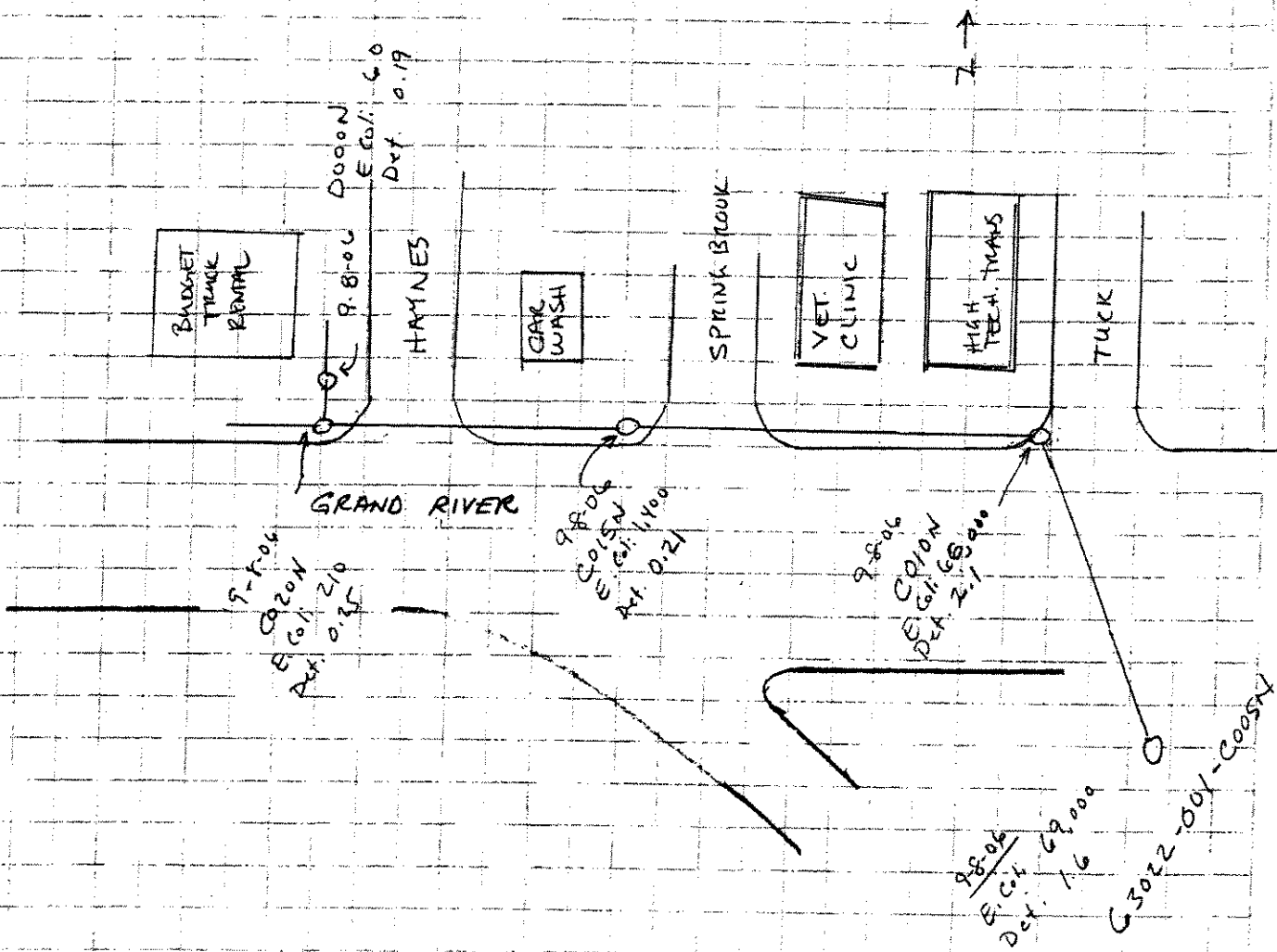
Sample Location Map  
Laboratory Test Results

cc: MDEQ Water Bureau District Supervisor; Hae-Jin Yoon  
MDOT Storm Water Program Manager; Judy Ruszkowski  
Tetra Tech; Dan Christian  
HRC; William Davis  
File

MDOT Phase 2 Storm Water IDEP  
 Crossing "C" Grand River at Tuck  
 City of Farmington Hills

9-8 04  
 WRD

20030263  
 20



**RTI LABORATORIES, INC.**

31628 Glendale St.  
Livonia, Michigan 48150  
TEL: 734.422.8000  
FAX: 734.422.5342  
Website: [www.rtilab.com](http://www.rtilab.com)

**Analytical Report**

(consolidated)

WO#: 0609178

Date Reported: 9/11/2006

CLIENT: Hubbell, Roth &amp; Clark, Inc

Collection Date: 9/8/2006 1:15:00 PM

Project: MDOT Ph II - 20030263

Lab ID: 0609178-001

Matrix: WATER

Client Sample ID 63022-001 C050N C005N

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>E. COLI</b>						Analyst: JS5
				E1103.1		
Escherichia Coli	69,000	10		CFU/100ml	10	9/8/2006 3:00:00 PM
<b>METHYLENE BLUE ACTIVE SUBSTANCES</b>						Analyst: JE
				E425.1		
MBAS	1.6	0.25	H	mg/L	5	9/11/2006 8:30:00 AM

**Qualifiers:** \* / X Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
RL Reporting Detection Limit

Page 2 of 8

**RTI LABORATORIES, INC.**

31628 Glendale St.  
Livonia, Michigan 48150  
TEL: 734.422.8000  
FAX: 734.422.5342  
Website: [www.rtilab.com](http://www.rtilab.com)

**Analytical Report**

(consolidated)

WO#: 0609178

Date Reported: 9/11/2006

CLIENT: Hubbell, Roth &amp; Clark, Inc

Collection Date: 9/8/2006 1:20:00 PM

Project: MDOT Ph II - 20030263

Lab ID: 0609178-002

Matrix: WATER

Client Sample ID 63022-001-C010N

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>E. COLI</b>				<b>E1103.1</b>		Analyst: JS5
Escherichia Coli	66,000	10		CFU/100ml	10	9/8/2006 3:00:00 PM
<b>METHYLENE BLUE ACTIVE SUBSTANCES</b>				<b>E425.1</b>		Analyst: JE
MBAS	2.1	0.25	H	mg/L	5	9/11/2006 8:30:00 AM

Qualifiers: \* /X Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
RL Reporting Detection Limit

Page 3 of 8

**RTI LABORATORIES, INC.**

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FAX: 734.422.5342  
Website: [www.rtilab.com](http://www.rtilab.com)

**Analytical Report**

(consolidated)

WO#: 0609178

Date Reported: 9/11/2006

CLIENT: Hubbell, Roth &amp; Clark, Inc

Collection Date: 9/8/2006 1:30:00 PM

Project: MDOT Ph II - 20030263

Lab ID: 0609178-003

Matrix: WATER

Client Sample ID 63022-001-C015N

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
E. COLI				E1103.1		Analyst: JS5
Escherichia Coli	1,400	10		CFU/100ml	10	9/8/2006 3:00:00 PM
METHYLENE BLUE ACTIVE SUBSTANCES				E425.1		Analyst: JE
MBAS	0.21	0.050	H	mg/L	1	9/11/2006 8:30:00 AM

Qualifiers: \* / X Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
RL Reporting Detection Limit

Page 4 of 8

**RTI LABORATORIES, INC.**

31628 Glendale St.  
Livonia, Michigan 48150  
TEL: 734.422.8000  
FAX: 734.422.5342  
Website: [www.rtilab.com](http://www.rtilab.com)

**Analytical Report**

(consolidated)

WO#: 0609178

Date Reported: 9/11/2006

CLIENT: Hubbell, Roth &amp; Clark, Inc

Collection Date: 9/8/2006 2:00:00 PM

Project: MDOT Ph II - 20030263

Lab ID: 0609178-004

Matrix: WATER

Client Sample ID 63022-001-C020N

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>E. COLI</b>						
				<b>E1103.1</b>		Analyst: JS5
Escherichia Coli	210	10		CFU/100ml	10	9/8/2006 3:00:00 PM
<b>METHYLENE BLUE ACTIVE SUBSTANCES</b>						
				<b>E425.1</b>		Analyst: JE
MBAS	0.25	0.050	H	mg/L	1	9/11/2006 8:30:00 AM

Qualifiers: \*X Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
RL Reporting Detection Limit

Page 5 of 8



**RTI LABORATORIES, INC.**

31628 Glendale St.  
Livonia, Michigan 48150  
TEL: 734.422.8000  
FAX: 734.422.5342  
Website: [www.rtilab.com](http://www.rtilab.com)

**Analytical Report**

(consolidated)

WO#: 0609178

Date Reported: 9/11/2006

CLIENT: Hubbell, Roth &amp; Clark, Inc

Collection Date: 9/8/2006 2:10:00 PM

Project: MDOT Ph II - 20030263

Lab ID: 0609178-005

Matrix: WATER

Client Sample ID 63022-001-D000N

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>E. COLI</b>						Analyst: JS5
Escherichia Coli	60	10		CFU/100ml	10	9/8/2006 3:00:00 PM
<b>METHYLENE BLUE ACTIVE SUBSTANCES</b>						Analyst: JE
MBAS	0.19	0.050	H	mg/L	1	9/11/2006 8:30:00 AM

Qualifiers: \*X Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
RL Reporting Detection Limit

Page 6 of 8

Thomas L. Raymus  
CHAIRMAN

Robert M. Sawicki  
VICE-CHAIRMAN

Fran Gillett  
COMMISSIONER



## BOARD OF COUNTY ROAD COMMISSIONERS OF MACOMB COUNTY

Administration Building  
117 S. Groesbeck Highway  
Mount Clemens, Michigan 48043  
(586) 463-8671

December 18, 2006

Mr. Randy McKinney, P.E.  
Michigan Department of Transportation  
18101 West Nine Mile Road  
Southfield, MI 48075

RE: MDOT's IDEP Crossing 51 Outfall #50021-005-A000N  
Potential Illicit Connection M-59 & Mound Road MH 50021-005-7015N&7040N  
HRC Job #20030263.20

Dear Mr. McKinney:

The Road Commission of Macomb County has been involved in a thorough investigation of the above-references IDEP Crossing. Enclosed please find several letters from various agencies indicating no illicit connections found at the Classic Shine Car Wash.

A full investigation was facilitated by the Road Commission of Macomb County, and we believe no further action is warranted at this time.

We appreciate the opportunity to continue our partnership with MDOT on this IDEP program. If you have any questions regarding this issue, please feel free to contact me.

Sincerely,

ROAD COMMISSION OF MACOMB COUNTY

  
Robert P. Hoepfner, P.E.  
County Highway Engineer

RH/sf

enclosures

cc: H. Yoon, MDEQ; A. Marrocco, MCOPW;  
T. Schoenherr, Shelby Twp DPW; J. Ruskowski, MDOT;  
D. Christian, TetraTech; W. Davis, HRC;  
K. Andre, Classic Shine Car Wash



**Environmental Consulting & Technology, Inc.**

December 14, 2006

Mr. Joe Pacella  
Macomb County Road Commission  
117 S. Groesbeck Hwy  
Mt. Clemens, MI 48043

**RE: Dye Test Findings - 45275 Mound Rd. Utica, Michigan**

On behalf of Kevin Andre owner of the Classic Shine Car Wash, Environmental Consulting & Technology, Inc. (ECT) is responding to your letter dated November 21, 2006 regarding the potential illicit connection of the car wash to the Road Commission's storm sewer system.

Eventhough, the concentrations of surfactants found by MDOT's contractor are commonly found in watercourses and storm drains throughout southeast Michigan, Mr. Andre had the wash dye tested to conclusively determine that it is properly connected to the sanitary sewer system.

The results of the dye test conducted by the MCHD indicate that the car wash is indeed properly discharging to the sanitary sewer system (see attached report) and not the storm sewer. Mr. Andre appreciates the County's assistance in resolving this matter.

If you should have any questions regarding this information please contact Mr. Andre at 248-342-6478 or myself at 586-465-2583.

Sincerely,  
**ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.**

Annette DeMaria  
Staff Engineer

Cc: Kevin Andre, Classic Shine Car Wash

44 Groesbeck Hwy  
Clinton Township, MI  
48036

(586)  
465-2583

FAX (586)

Inspectors: 8m/GJ

Investigation No.: 06-344

Investigation Date: 11/21/06

# **MACOMB COUNTY HEALTH DEPARTMENT** **ENVIRONMENTAL HEALTH SERVICES DIVISION**

## **S.W.I.M. SITE INVESTIGATION REPORT FOR** **CENTER LINE & WARREN FACILITIES**

Facility Name: Classic Shine Auto Wash Phone No.: \_\_\_\_\_

Facility Address: 45275 Mound Rd, Shelby

Facility Type: ☐ Industrial ☒ Commercial ☐ Institution

Property Owner: Kevin Andie Phone No.: 248-342-6478

Property Owner Address: 856 Majestic, Rochester Hills, MI 48306

Person Interviewed: Kevin Andie Standard Industrial Classification Code (SIC): \_\_\_\_\_

☐ Basement ☐ Crawl Space ☒ Slab Sump Pump? ☐ Yes ☐ No ☒ Not Applicable

Surge Pump ☐ Connected to Sanitary Lead Inside Building ☐ Other \_\_\_\_\_

Discharge: ☐ Ground Surface ☐ Storm Drain - Location \_\_\_\_\_

### **DYE APPLICATION INFORMATION**

Please provide specific information for the categories "Fixture Location" (ex: Northwest corner of 2<sup>nd</sup> Floor) and "Location where dye was observed" (ex: discharging from South pipe in Manhole No. 0).

Application No. 1 Time Dye Applied: 9:07 Time Dye Observed: 9:12

Dye applied to: ☒ Toilet ☐ Sink ☐ Laundry Tub ☐ Floor Drain ☐ Other: \_\_\_\_\_

No. of Fixtures Per Lead: 7 /Lead Fixture Location: Bathroom in office - South end of Bldg

Color: ☒ Red ☐ Green ☐ Other \_\_\_\_\_ Dye observed At: ☐ Storm ☒ Sanitary ☐ Not Found

Location where dye was observed: Sanitary sewer on west side of building near automatic car wash drive-in.

Application No. 2 Time Dye Applied: 9:13 Time Dye Observed: 9:53

Dye applied to: ☐ Toilet ☐ Sink ☐ Laundry Tub ☐ Floor Drain ☒ Other: Pit/Basin in car wash bay

No. of Fixtures Per Lead: 9 /Lead Fixture Location: Auto wash - South end of building

Color: ☐ Red ☒ Green ☐ Other \_\_\_\_\_ Dye observed At: ☐ Storm ☒ Sanitary ☐ Not Found

Location where dye was observed: Sanitary on west side of building near auto-in drive.

Application No. 3 Time Dye Applied: \_\_\_\_\_ Time Dye Observed: \_\_\_\_\_

Dye applied to: ☐ Toilet ☐ Sink ☐ Laundry Tub ☐ Floor Drain ☐ Other: \_\_\_\_\_

No. of Fixtures Per Lead: \_\_\_\_\_ /Lead Fixture Location: \_\_\_\_\_

Color: ☐ Red ☐ Green ☐ Other \_\_\_\_\_ Dye observed At: ☐ Storm ☐ Sanitary ☐ Not Found

Location where dye was observed: \_\_\_\_\_

Inspectors: \_\_\_\_\_

Investigation No.: \_\_\_\_\_

Investigation Date: 11/21/06

## CENTER LINE & WARREN FACILITY INVESTIGATION REPORT

FACILITY NAME: \_\_\_\_\_

Investigation completed with the assistance of: ☒ Warren ☐ Center Line ☐ None

MCPWO

### RESULTS/ACTION REQUIRED

☐ IDEP Correction Required

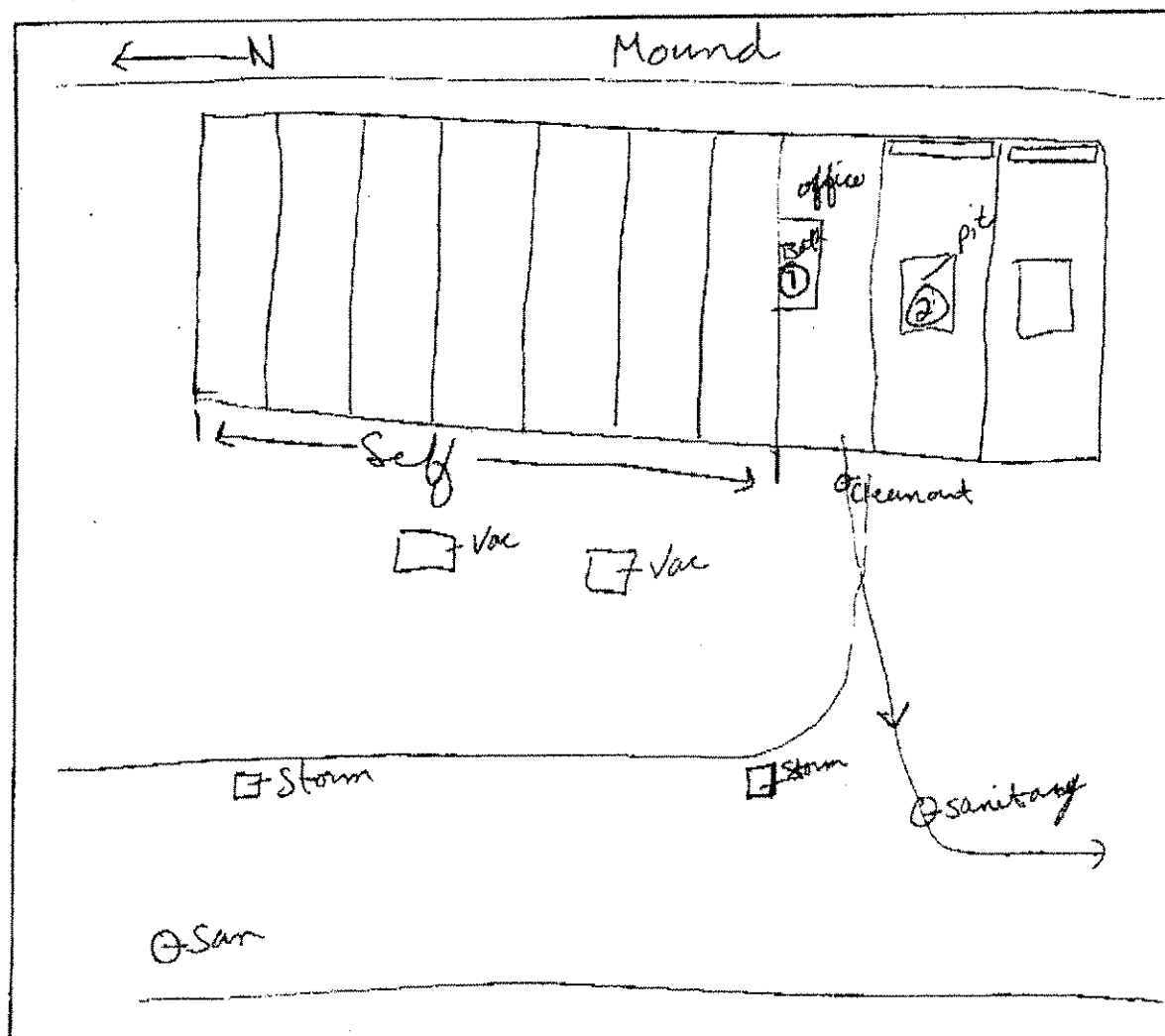
☒ IDEP Correction Not Required

☐ Sanitary Connection to Storm

☐ Sump Connected to Sanitary

Comments: Sanitary manhole had heavy sediment accumulation.

### Site Drawing





## HEALTH DEPARTMENT Mount Clemens Health Center

43525 Elizabeth Road  
Mount Clemens, Michigan 48043  
586-469-5235 FAX 586-469-5885  
macombcountymi.gov/publichealth

Thomas J. Kalkofen  
Director/Health Officer

November 28, 2006

Kevin P. Lokar, M.D.  
Medical Director

Robert Hoepfner, P.E.  
Road Commission of Macomb County  
Administration Building  
117 S. Groesbeck Highway  
Mt. Clemens, MI 48043

Dear Mr. Hoepfner:

### SUBJECT: CLASSIC SHINE AUTO WASH - 45275 MOUND ROAD

On November 21, 2006 the Macomb County Health Department, at the request of the Macomb County Public Works Office, inspected and dye tested the facility at the above address to determine if the sanitary waste lines are connected to the appropriate sewer systems.

During our investigation, dye was introduced to the bathroom plumbing and the drains in the automatic wash bay. The investigation revealed that the waste lines are connected to the sanitary sewer located in the driveway on the west side of the building. Additionally, we observed a large quantity of sediment in the sanitary sewer. The owner of the property was advised to have the sediment removed from the manhole to prevent a potential sewage back-up.

If you have any questions regarding this matter, please contact me at (586) 469-5236.

Sincerely,

Cole Shoemaker, M.P.H., R.S.  
Supervisor  
Environmental Health Services Division

### Attachments

cc: Lynne Seymore, MCPWO  
Kevin Andre, Classic Shine Acquisitions LLC  
Ted Schoenherr, Shelby Township DPW  
J. Pacella, Road Commission of Macomb County  
H. Yoon, MDEQ  
R. McKinney, MDOT

### MACOMB COUNTY BOARD OF COMMISSIONERS

Andrey Duzjy - District 1	Sue Rocca - District 7	Peter J. Lund - District 12	Nancy M. White - District 20 Chair	Joan Flynn - District 6 Vice-Chair	Leonard Haggerty - District 21 Sergeant-At-Arms
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Susan L. Doherty - District 5	Ed Szczepanski - District 11	William J. Revoir - District 16	Betty Slinde - District 22	Nicholas A. Brandenburg - District 26	

Inspectors: 8m/95

Investigation No.: 06-344

Investigation Date: 11/21/06

# MACOMB COUNTY HEALTH DEPARTMENT

## ENVIRONMENTAL HEALTH SERVICES DIVISION

### S.W.I.M. SITE INVESTIGATION REPORT FOR ~~CENTER LINE & WARREN FACILITIES~~

Facility Name: Classic Shine Auto Wash Phone No.: \_\_\_\_\_

Facility Address: 45275 Mound Rd, Shelby

Facility Type: ☐ Industrial ☒ Commercial ☐ Institution

Property Owner: Kevin Andre Phone No.: 248-342-6478

Property Owner Address: 856 Majestic, Rochester Hills, MI 48306

Person Interviewed: Kevin Andre Standard Industrial Classification Code (SIC): \_\_\_\_\_

☐ Basement ☐ Crawl Space ☒ Slab Sump Pump? ☐ Yes ☐ No ☒ Not Applicable

Sump Pump ☐ Connected to Sanitary Lead Inside Building ☐ Other \_\_\_\_\_

Discharge: ☐ Ground Surface ☐ Storm Drain - Location \_\_\_\_\_

### DYE APPLICATION INFORMATION

Please provide specific information for the categories "Fixture Location" (ex: Northwest corner of 2<sup>nd</sup> Floor) and "Location where dye was observed" (ex: discharging from South pipe in Manhole No. 0).

Application No. 1 Time Dye Applied: 9:07 Time Dye Observed: 9:12

Dye applied to: ☒ Toilet ☐ Sink ☐ Laundry Tub ☐ Floor Drain ☐ Other: \_\_\_\_\_

No. of Fixtures Per Lead: 7 /Lead Fixture Location: Bathroom in office - South end of Bldg IT/IS SFD

Color: ☒ Red ☐ Green ☐ Other \_\_\_\_\_ Dye observed At: ☐ Storm ☒ Sanitary ☐ Not Found

Location where dye was observed: Sanitary sewer on west side of building near automatic car wash drive-in.

Application No. 2 Time Dye Applied: 9:13 Time Dye Observed: 9:53

Dye applied to: ☐ Toilet ☐ Sink ☐ Laundry Tub ☐ Floor Drain ☒ Other: Pit/Basin in car wash bay

No. of Fixtures Per Lead: 9 /Lead Fixture Location: Auto wash - South end of building

Color: ☐ Red ☒ Green ☐ Other \_\_\_\_\_ Dye observed At: ☐ Storm ☒ Sanitary ☐ Not Found

Location where dye was observed: Sanitary on west side of building near auto-in drive.

Application No. 3 Time Dye Applied: \_\_\_\_\_ Time Dye Observed: \_\_\_\_\_

Dye applied to: ☐ Toilet ☐ Sink ☐ Laundry Tub ☐ Floor Drain ☐ Other: \_\_\_\_\_

No. of Fixtures Per Lead: \_\_\_\_\_ /Lead Fixture Location: \_\_\_\_\_

Color: ☐ Red ☐ Green ☐ Other \_\_\_\_\_ Dye observed At: ☐ Storm ☐ Sanitary ☐ Not Found

Location where dye was observed: \_\_\_\_\_

Inspectors: \_\_\_\_\_

Investigation No.: \_\_\_\_\_  
Investigation Date: 11/21/06

## CENTER LINE & WARREN FACILITY INVESTIGATION REPORT

FACILITY NAME: \_\_\_\_\_

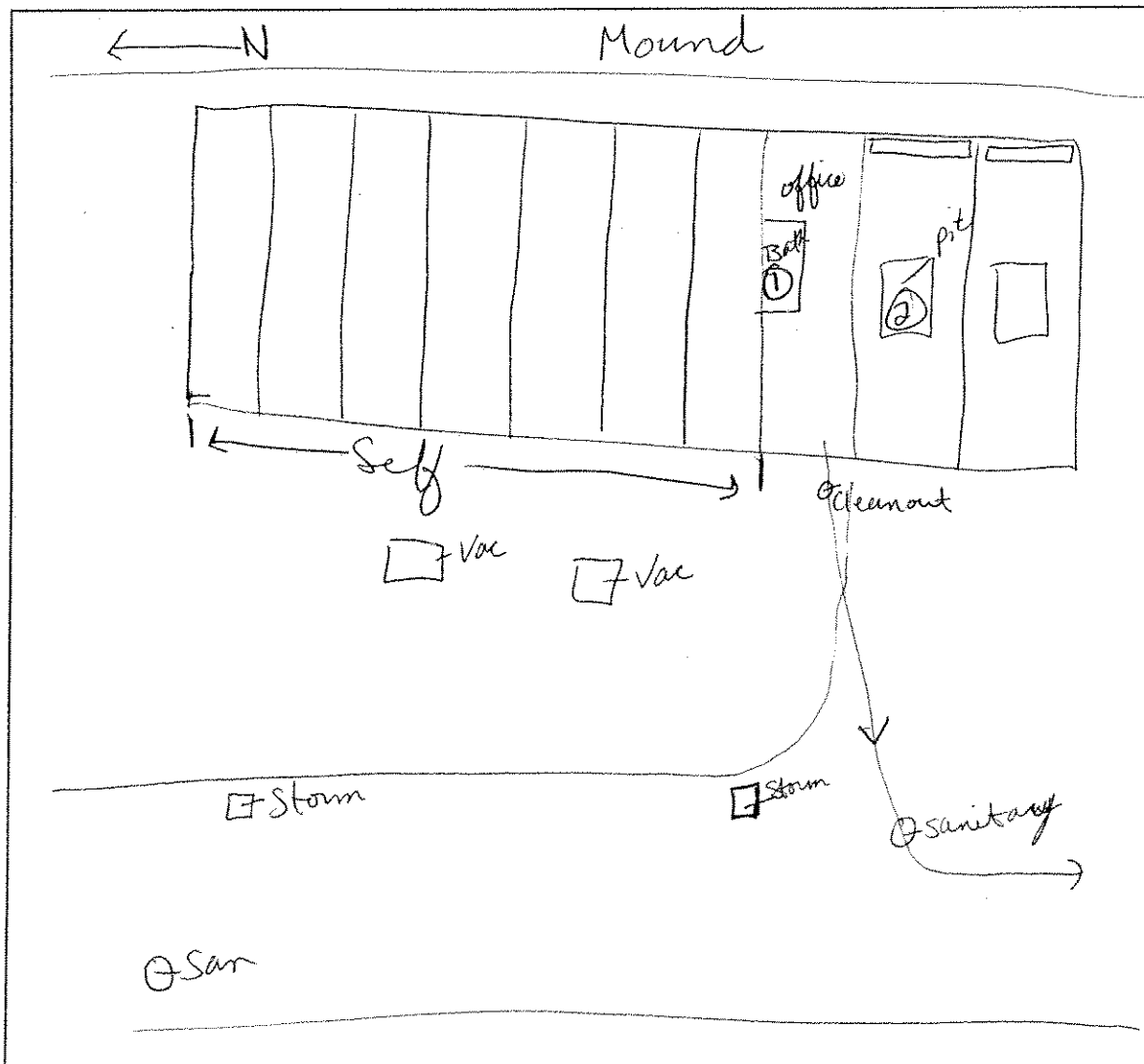
Investigation completed with the assistance of: ☒ Warren ☐ Center Line ☐ None  
MCPWO

### RESULTS/ACTION REQUIRED

- ☐ IDEP Correction Required ☒ IDEP Correction Not Required  
☐ Sanitary Connection to Storm ☐ Sump Connected to Sanitary

Comments: Sanitary manhole had heavy sediment accumulation.

### Site Drawing





# Charter Township of Shelby

Theodore P. Schoenherr, Director  
Department of Public Works, Water and Sewer

6333 23 Mile Road  
Shelby Township, MI 48316-4405

Phone: (586) 726-7272  
Fax: (586) 726-7221  
E-mail: dpw@shelbytwp.org

November 2, 2006

Mr. Bob Hoepfner  
County Highway Engineer  
Macomb County Road Commission  
117 S. Groesbeck Highway  
Mount Clemens, MI 48043-2183

RE: Potential Illicit Connection at Classic Shine Auto Wash, 45275 Mound Road, Shelby Township

586-726-8203

Dear Bob:

Please be advised that we have inspected the above-referenced site, and to the best of our knowledge, the wash bay runoff outlets into the Shelby Township sanitary sewer system, as per design. I have no reason to believe otherwise, as the auto wash is paying a substantial water and sewer bill for this service.

If I can be of further assistance, please to not hesitate to contact me.

Very truly yours,

CHARTER TOWNSHIP OF SHELBY



Theodore P. Schoenherr  
Director of Public Works

TPS/pac

Enclosure



JENNIFER M. GRANHOLM  
GOVERNOR

STATE OF MICHIGAN  
**DEPARTMENT OF TRANSPORTATION**  
LANSING

KIRK T. STEUDLE  
DIRECTOR

METRO REGION OFFICE

October 10, 2006

Bob Hoepfner,  
County Highway Engineer  
Macomb County Road Commission  
117 S. Groesbeck Highway  
Mount Clemens, MI 48043-2183

Dear Mr. Hoepfner:

RE: MDOT's IDEP Crossing 51 Outfall No. 50021-005-A000N  
Potential Illicit Connection M-59 & Mound Road MH 50021-005-J015N & J040N  
HRC Job No. 20030263.20

*has been  
ruled out*

Hubbell, Roth & Clark, Inc. is working on behalf of the Michigan Department of Transportation (MDOT), implementing their Illicit Discharge Elimination Plan (IDEP) required under their NPDES Storm Water Discharge Permit. We are currently investigating a MDOT storm sewer system within Macomb County. Information gathered during the course of this investigation indicates a potential illicit connection is originating from the Mound Road storm sewer system and entering into MDOT's storm sewer system. The Auto Wash at 45275 Mound Road, located just north of M-59 in Shelby Township, is a potential source of the detergents found in dry weather samples. We have attached a sample location map and test results.

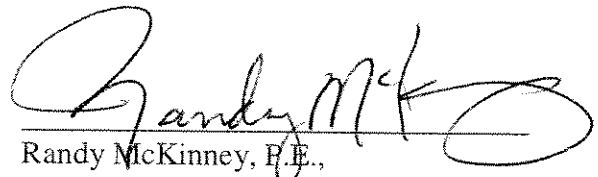
MDOT is requesting that the Macomb County Road Commission investigate the source of the detergents and eliminate all confirmed illicit connections. Please provide documentation to this office, within the next 30-days, describing what actions you have taken to resolve this matter.

We are willing to meet with you and your staff to discuss this matter should you feel it is necessary.

Mr. Bob Hoepfner  
HRC Job Number 20030268.20  
October 10, 2006  
Page 2

Please contact the undersigned should you have any questions or require additional information.

Sincerely,



Randy McKinney, P.E.,  
Metro Region Maintenance Engineer  
248-483-5144

RM:dvd

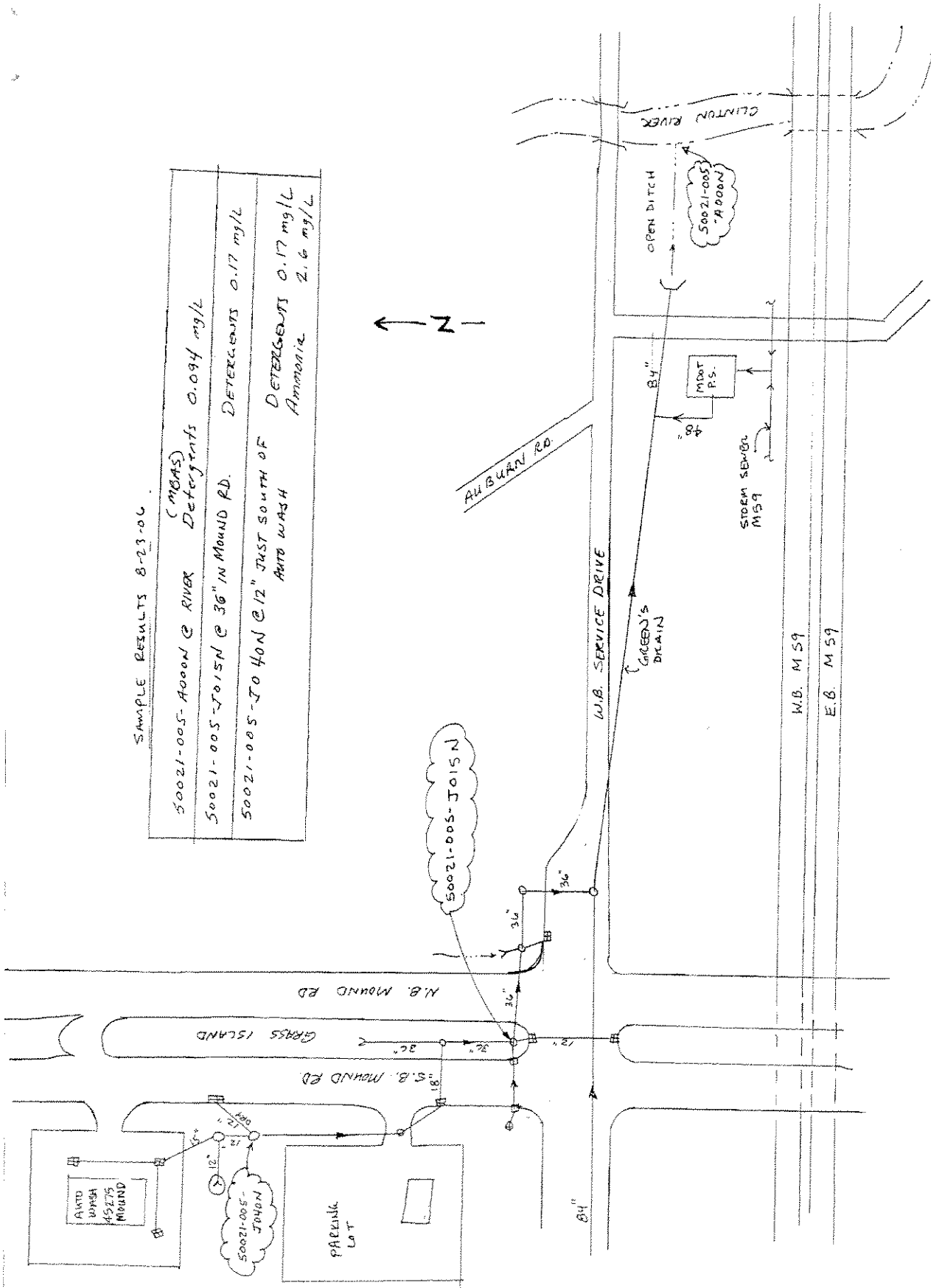
Enclosures:

Sample Location Map  
Laboratory Test Results

cc: MDEQ Water Bureau District Supervisor; Hae-Jin Yoon  
Macomb County Public Works Commissioner; Anthony Marrocco  
Shelby Twp. Department of Public Works; Theodore Schoenherr  
MDOT Storm Water Program Manager; Judy Ruszkowski  
Tetra Tech; Dan Christian  
HRC; William Davis  
File

SAMPLE RESULTS 8-23-06

50021-005-A000N @ RIVER (MBAS)	Detergents	0.094 mg/L
50021-005-J015N @ 36" IN MOUND RD.	DETERGENTS	0.17 mg/L
50021-005-J040N @ 12" JUST SOUTH OF AUTO WASH	DETERGENTS	0.17 mg/L
	Ammonia	2.6 mg/L



#51

**RTI LABORATORIES, INC.**

31628 Glendale St.  
Livonia, Michigan 48150  
TEL: 734.422.8000  
FAX: 734.422.5342  
Website: [www.rtilab.com](http://www.rtilab.com)

**Analytical Report**

(consolidated)

WO#: 0608700

Date Reported: 8/29/2006

**CLIENT:** Hubbell, Roth & Clark, Inc **Collection Date:** 8/23/2006 11:30:00 AM  
**Project:** MDOT IDEP - 20030263.20  
**Lab ID:** 0608700-001 **Matrix:** WATER  
**Client Sample ID** 5002I-005-A000N

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>INORGANIC ANIONS</b>				<b>E300.0</b>		Analyst: MW
Fluoride	0.13	0.010		mg/L	1	8/28/2006 11:03:00 AM
<b>HARDNESS</b>				<b>A2340B</b>		Analyst: AB2
Total Hardness (As CaCO <sub>3</sub> )	390	20		mg/L CaCO <sub>3</sub>	20	8/27/2006 11:32:28 AM
<b>E. COLI</b>				<b>E1103.1</b>		Analyst: JS5
Escherichia Coli	220	10		CFU/100ml	10	8/23/2006 3:00:00 PM
<b>AMMONIA</b>				<b>E350.3</b>		Analyst: PG
Nitrogen, Ammonia	ND	0.10		mg/L	1	8/24/2006 11:00:00 AM
<b>METHYLENE BLUE ACTIVE SUBSTANCES</b>				<b>E425.1</b>		Analyst: JE
MBAS	0.094	0.050		mg/L	1	8/24/2006 7:45:00 AM

<b>Qualifiers:</b>	*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Page 2 of 8

#51


**RTI LABORATORIES, INC.**

31628 Glendale St.  
Livonia, Michigan 48150  
TEL: 734.422.8000  
FAX: 734.422.5342  
Website: [www.rtilab.com](http://www.rtilab.com)

## Analytical Report

(consolidated)

WO#: 0608700

Date Reported: 8/29/2006

CLIENT: Hubbell, Roth &amp; Clark, Inc

Collection Date: 8/23/2006 10:45:00 AM

Project: MDOT IDEP - 20030263.20

Lab ID: 0608700-002

Matrix: WATER

Client Sample ID 50021-005-J015N

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>INORGANIC ANIONS</b>		<b>E300.0</b>		Analyst: MW		
Fluoride	0.18	0.010		mg/L	1	8/28/2006 11:03:00 AM
<b>HARDNESS</b>		<b>A2340B</b>		Analyst: AB2		
Total Hardness (As CaCO <sub>3</sub> )	630	20		mg/L CaCO <sub>3</sub>	20	8/27/2006 11:34:55 AM
<b>E. COLI</b>		<b>E1103.1</b>		Analyst: JS5		
Escherichia Coli	100	10		CFU/100ml	10	8/23/2006 3:00:00 PM
<b>AMMONIA</b>		<b>E350.3</b>		Analyst: PG		
Nitrogen, Ammonia	0.64	0.10		mg/L	1	8/24/2006 11:00:00 AM
<b>METHYLENE BLUE ACTIVE SUBSTANCES</b>		<b>E425.1</b>		Analyst: JE		
MBAS	0.17	0.050		mg/L	1	8/24/2006 7:45:00 AM

Qualifiers: \* / X Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
RL Reporting Detection Limit

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**Analytical Report**

(consolidated)

WO#: 0608700

Date Reported: 8/29/2006

**CLIENT:** Hubbell, Roth & Clark, Inc      **Collection Date:** 8/23/2006 11:15:00 AM  
**Project:** MDOT IDEP - 20030263.20  
**Lab ID:** 0608700-003      **Matrix:** WATER  
**Client Sample ID** 50021-005-J040N

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>INORGANIC ANIONS</b>						
		<b>E300.0</b>				Analyst: <b>MW</b>
Fluoride	0.17	0.010		mg/L	1	8/28/2006 11:03:00 AM
<b>HARDNESS</b>						
		<b>A2340B</b>				Analyst: <b>AB2</b>
Total Hardness (As CaCO <sub>3</sub> )	760	20		mg/L CaCO <sub>3</sub>	20	8/27/2006 11:37:23 AM
<b>E. COLI</b>						
		<b>E1103.1</b>				Analyst: <b>JS5</b>
Escherichia Coli	ND	1.0		CFU/100ml	1	8/23/2006 3:00:00 PM
<b>AMMONIA</b>						
		<b>E350.3</b>				Analyst: <b>PG</b>
Nitrogen, Ammonia	2.6	0.10		mg/L	1	8/24/2006 11:00:00 AM
<b>METHYLENE BLUE ACTIVE SUBSTANCES</b>						
		<b>E425.1</b>				Analyst: <b>JE</b>
MBAS	0.17	0.050		mg/L	1	8/24/2006 7:45:00 AM

<b>Qualifiers:</b>	*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

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